

**SI Table 1. Regulation of the human islet proteome by insulin and glucose.**

<b>Spots increased by insulin</b>		gi code	2 nM insulin	high glucose
thioredoxin peroxidase V		6166493	2.79	2.1
vimentin		55408	2.77	1.85
glucagon precursor*#		31778	1.62	1.1
ATP Synthase subunit d isoform a		5453559	1.57	1.17
malate dehydrogenase*		6648067	1.54	1.16
malate dehydrogenase*		6648067	1.51	1.21
heterogeneous nuclear ribonucleoprotein B1A2		4504447	1.46	-1.26
glucagon precursor*#		31778	1.43	-1.06
<b>Spots decreased by insulin</b>				
Arp 2/3 (ARPC2)		23621467	-3.95	-2.67
bridge-1 (proteosome p27)*#		2055256	-2.98	-2.1
heterogeneous nuclear ribonucleoprotein-K		460789	-2.31	-1.48
phosphoglycerate mutase*		4505753	-2.27	-1.72
phosphoglycerate mutase*		4505753	-2.26	-1.9
beta-actin		28336	-2.22	-1.72
14-3-3 protein zeta/delta*		112696	-2.2	-1.77
14-3-3 protein gamma*		3065929	-2	-1.66
glyceraldehyde-3-phosphate dehydrogenase		31645	-1.96	-1.57
annexin V Chain A		809185	-1.93	-1.67
cofilin 1		6680924	-1.93	-1.54
cyclophilin B		118090	-1.76	-1.49
Enolase*		4503571	-1.75	-1.7
elongation factor 1beta*		232032	-1.75	-1.51
36-kDa carboxyl terminal LIM domain protein		1905874	-1.74	-1.41
annexin IV		16876992	-1.73	-1.29
aldehyde dehydrogenase*		2193299	-1.72	-1.67
SET Protein		1711383	-1.71	-1.39
histone H2a		2072004	-1.7	-1.36
laminin binding protein		34234	-1.69	-1.18
carbonic anhydrase		229657	-1.64	-1.39
elongation factor Tu, mitochondrial		1706611	-1.63	-1.49
tropomyosin		111212	-1.63	-1.16
cathepsin D		115719	-1.57	-1.26
heterogeneous nuclear ribonucleoprotein-D		870743	-1.55	-1.36
peroxiredoxin 1*		4505591	-1.55	-1.31
14-3-3 zeta/delta*		112696	-1.51	-1.29
galactose-specific lectin		1196442	-1.51	-1.46

Spots &gt; 2 standard deviations different from control were considered significant.

\*, Known target of insulin. #, Specifically implicated in islet function or survival.